

## ABSTRACT OF THE DISCLOSURE

METHOD OF DISTRIBUTING COMMUNICATIONS WITHIN A CELL  
OF A RADIO-COMMUNICATION NETWORK, AND A  
CORRESPONDING DEVICE AND BASE STATION.

The invention relates to a method of distributing communications established by radio-communication terminals, within a geographic cell of a radio-communication network, the geographic cell being sub-divided into at least two geographic sectors.

According to this invention, the method comprises a step of modifying, by rotation, the orientation of the sectors within said cell.

Figure 2b.

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41 → Y     $\text{Rate}(S_i) \geq \text{Rate\_Max}$     N  
           $\forall i \in [1, N]$

42 →        Choice of  $S_{\text{sat}}$  such that  
           $\text{Rate}(S_{\text{sat}}) = \max(\text{Rate}(S_i))$

43 →        Measurement of  $\text{Rate}(S_i)$  for the 2 sectors  
           $S_{\text{sat}-1}$  and  $S_{\text{sat}+1}$  adjacent to  $S_{\text{sat}}$

44 →        Determination of the sector  $S_{\text{min}}$  such that  
           $\text{Rate}(S_{\text{min}}) = \min(\text{Rate}(S_{\text{sat}-1}), \text{Rate}(S_{\text{sat}+1}))$

Time T  
 49

45 →        Rotation through an angle  $\alpha$  in the  
          direction from  $S_{\text{sat}}$  towards  $S_{\text{min}}$

46 →        Measurement of  $\text{Rate}(S'_i)$   
           $\forall i \in [1, N]$

47 →        Y        An  $S'_i$  exists such that        N  
           $\text{Rate}(S'_i) \geq \text{Rate}(S_{\text{sat}})$

48 → New  
Position  
Established

Fig. 4a

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41' → Y Nblinks( $S_i$ )  $\geq$  NbLinks\_Max N  
 $\forall i \in [1, N]$

42' → Choice of  $S_{sat}$  such that  
 $NbLinks(S_{sat}) = \max(NbLinks(S_i))$

43' → Measurement of NbLinks( $S_i$ ) for the 2 sectors  
 $S_{sat-1}$  and  $S_{sat+1}$  adjacent to  $S_{sat}$

44' → Determination of the sector  $S_{min}$  such that  
 $NbLinks(S_{min}) = \min(NbLinks(S_{sat-1}), NbLinks(S_{sat+1}))$

Time T  
49

45' → Rotation through an angle  $\alpha$  in the  
direction from  $S_{sat}$  towards  $S_{min}$

46' → Measurement of NbLinks( $S'_i$ )  
 $\forall i \in [1, N]$

48' → **New  
Position  
Established**

Fig. 4b

# THE HISTORY OF THE UNITED STATES